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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,148	06/30/2005	Ricardo Perez Oca	2273-0121PUS1	4531
2292	7590	10/13/2006	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			PEDDER, DENNIS H	
			ART UNIT	PAPER NUMBER
			3612	

DATE MAILED: 10/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/541,148	PEREZ OCA ET AL.
	Examiner	Art Unit
	Dennis H. Pedder	3612

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on \_\_\_\_.

2a)  This action is FINAL.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-5 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5)  Claim(s) \_\_\_\_\_ is/are allowed.  
6)  Claim(s) 1-5 is/are rejected.  
7)  Claim(s) \_\_\_\_\_ is/are objected to.  
8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 30 June 2005 is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 6/30/2005.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5)  Notice of Informal Patent Application  
6)  Other: \_\_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the stops for the mechanism pivots, claim 1, spring, claim 4, and intermediate reroutings, claim 5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### *Claim Rejections - 35 USC § 112*

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase “or similar means” is indefinite under this statute.

No stops for the pivots are apparently disclosed.

“The cable drum lacks antecedent basis, claim 1.

Claim 1 is not generic to claim 3 as it is not apparently possible for an injected frame to be metal alloy, and extruded as disclosed, as best understood.

Claim 5 is indefinite in “when necessary” under this statute.

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

No stops for the pivots are apparently disclosed and the claim is not understood via the disclosure.

As to claim 5, no additional reroutings are apparently disclosed and the claim is not understood via the disclosure.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schliecher et al. DE 4012635 (635), in view of Imgram et al., Bohm et al. and Hayashi et al.

The claims appear to be a compilation of known elements from this art. For example, Schliecher et al. teach the claimed supporting frame of injection molded plastic U-shaped structure, with orificed protrusions 8 lacking the centered extension covering a drive element for the roof, a detail taught by Imgram et al. at the motor 19. Bohm et al. teach the cable drive mechanism with cable connections as claimed including reroutings at 20-26 at corners. Schliecher et al. have lateral channels for the slide elements at 4 and Hayashi et al. teach that recesses 26 in the lateral channels allow vertical mounting of the sliding elements 24.

It would have been obvious to one of ordinary skill to provide in Schliecher et al. the center extension for mounting the drive motor as taught by Imgram et al. as a necessary attachment point, a drive cable mechanism as taught by Bohm et al. as a known drive in this art, and recesses in the lateral channels as taught by Hayashi et al. in order to allow venting of the roof panel. As to claim 5, although not completely understood, additional reroutings are deemed to be an obvious expedient to guide the cable as desired.

9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schliecher et al. (635) in view of Imgram et al., Bohm et al. and Hayashi et al. as applied to claim 1 above, and further in view of Masuda, Maeda et al. and Bienert.

The claim is not logical in the material, but Masuda teaches an aluminum alloy frame of U-shape. Auxiliary pieces at front are disclosed by Maeda et al. at 7 and rear by Bienert at 26. Locating the reroutings at these locations is disclosed by the Bohm et al. patent above and hence, in view of these teachings it would have been obvious to form the frame of metal alloy as taught by Masuda for durability and to form corner and end pieces separately as taught by Maeda et al. and Bienert in order to manufacture complex shapes in an economical manner.

10. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schliecher et al. (635) in view of Imgram et al., Bohm et al. and Hayashi et al. as applied to claim 1 above, and further in view of Lenhardt et al.

It would have been obvious to one of ordinary skill to provide in the references above a spring 18 connected to a cable drive as taught by Lenhardt et al. in order to assist closing force.

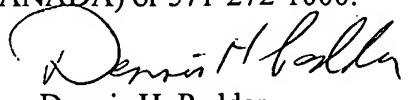
11. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schliecher et al. (635) in view of Imgram et al., Bohm et al. and Hayashi et al. as applied to claim 1 above, and further in view of Maeda et al.

Schliecher et al. have the cable routings and it would have been obvious to one of ordinary skill to provide in the references above integral drain tubes as taught by Maeda et al. in figure 3 at 10.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis H. Pedder whose telephone number is (571) 272-6667. The examiner can normally be reached on 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn D. Dayoan can be reached on (571) 272-6659. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Dennis H. Pedder

10/6/06

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Primary Examiner  
Art Unit 3612

DHP  
10/6/2006